PIC32MX250F128B-I/SS

Data Sheet

MCU 32-bit PIC32 PIC RISC 128KB Flash 2.5V/3.3V

Manufacturers	Microchip Technology, Inc
Package/Case	SSOP-28
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for PIC32MX250F128B-I/SS or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

Features

50 MHz/83DMIPS, 32-bit RISC CPU with 0.5 mA/MHz current consumption

Two I2S/SPI modules for Codec and serial communications

Peripheral Pin Select (PPS) functionality

Parallel Master Port (PMP) for graphics interfaces

Charge Time Measurement Unit (CTMU) :

Supports mTouchTM Capacitive touch buttons and sliders

Provides high-resolution time measurement (1 ns)

On-chip temperature measurement capability

Temperature Range - 40°C to 105°C

Microcontroller Features

Operating voltage range of 2.3V to 3.6V

Up to 128KB Flash memory (plus an additional 3 KB of Boot Flash)

Up to 32K SRAM memory

1.65 DMIPS/MHz (Dhrystone 2.1) performance

MIPS32® M4K® core with MIPS16e® mode for up to 40% smaller code size

Pin-compatible with most Microchip 16-bit devices

Multiple power management modes

Configurable WDT with on-chip Low-Power RC oscillator for reliable operation

Peripheral Features

Peripheral Pin Select (PPS) functionality

Up to 4 channels of hardware DMA with automatic data size detection

Two UART and I2C™ modules

Separate PLLs for CPU and USB clocks

Hardware Real-Time Clock and Calendar (RTCC)

Five 16-bit Timers/Counters (two 16-bit pairs combine to create two 32-bit timers)

Five Capture inputs and Five Compare/PWM outputs

Audio Interface Features

Data communication: I2S, LJ, RJ, DSP modes

Control interface: SPI and I2C™

Master clock:

Generation of fractional clock frequencies

Can be synchronized with USB clock

Can be tuned in run-time

Analog Features

Up to 13-channel, 10-bit ADC

Three Analog Comparators

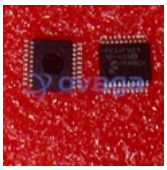
Charge Time Measurement Unit (CTMU)

Debug Features

Four programming and debugging Interfaces

IEEE Standard 1149.2 compatible (JTAG) boundary scan

Related Products



PIC24F16KA101-I/SS

Microchip Technology, Inc

SSOP-20

PIC16F1936-I/SS

Microchip Technology, Inc

SSOP-28

PIC16F1938-I/SP

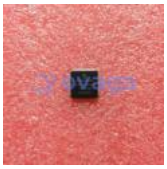
Microchip Technology, Inc

PDIP-28

PIC18F23K22-I/SP

Microchip Technology, Inc

SPDIP-28



PIC18F6520-I/PT

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TQFP-64

PIC18F2620-I/SP

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PIC18F97J60T-I/PT

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TQFP-100